

$$f_{-v} = 3a - f$$

$$f_a = va + v$$

$$1fa + 1f = 3a - f \rightarrow a = -1/1$$

$$\begin{aligned} f_{(2-\sqrt{3})} + f_{(2+\sqrt{3})} &= \sqrt{2-\sqrt{3}} + \sqrt{2+\sqrt{3}} + 2 + \sqrt{2-\sqrt{3}} + \sqrt{2+\sqrt{3}} + 2 \\ &= 2\sqrt{2-\sqrt{3}} + 2\sqrt{2+\sqrt{3}} + 4 = 2(\sqrt{2-\sqrt{3}} + \sqrt{2+\sqrt{3}}) + 4 \\ &= 2(\sqrt{4}) = 4 \end{aligned}$$

$$\frac{f}{(2-\sqrt{3})} + \frac{f}{(2+\sqrt{3})} = 2\sqrt{4} + 4$$

$$x^2 (2f_x - 3f_{(-x)}) = f_x^2 - x$$

$$x^3 (2f_{(-x)} - 3f_x) = f_x^2 + x$$

$$-2f_x = 1x^2 - 2x + 12x^2 + 3x = 13x^2 + x$$

$$f_x = -\frac{13x^2}{2} - \frac{x}{2}$$

$$x=0 \rightarrow r f_0 = r_{m-1}$$

$$x=-1 \rightarrow r f_0 = r_{m+1}$$

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$$r_{m-1} = r_{m+1} \rightarrow m = \frac{1}{2}$$

$$f_0 = \frac{r_{m-1}}{r} = \frac{r_0}{r}$$

4

$$ax + rb + \frac{a}{x} = r^2x - 12 + \frac{r}{x}$$

a

$$a = r, b = -4$$

$$f_x = r^2x - 4$$

$$f_{-1} = -4$$

$$g_x = -\sqrt{1-x}^n = (x-1)\sqrt{1-x}$$

4

$$D_f = (-\infty, 1]$$

4

$$D_g = (-\infty, 1]$$

$$\Rightarrow f_x = g_x$$

$$f_x = x\sqrt{x} = \sqrt{x^3} \quad D_f = [0, +\infty)$$

V

$$g_x = \sqrt{x^3} \quad D_g = [0, +\infty)$$

$$f_x = g_x$$

$$f_x = [\sqrt{x} - [\sqrt{x}]] \rightarrow f_x = 0$$

$$D_f = [0, +\infty)$$

$$g_x = \sqrt{x - |x|}$$

$$D_g = [0, +\infty) \Rightarrow g_x = 0$$

$$f_x = g_x$$

$$\text{الف) } \left( \frac{f+g}{f-g} \right) (1)$$

$$\frac{2+1}{2-1} = 3$$

$$\rightarrow (1, 3)$$

$$\text{ب) } \left( \frac{f+g}{f-g} \right) (2)$$

$$\frac{3+3}{3-3} = \frac{6}{0} : \text{تن}$$

$$(2, \text{تن})$$

$$\text{ج) } f \circ g(-1) = 0 \times 1 = 0$$

$$\text{الف) } g_x = \frac{f}{(x-1)}$$

$$g_x = \left\{ (1, 1), (0, 4), \left(\frac{1}{3}, 5\right), \left(-\frac{1}{3}, 2\right), \left(\frac{4}{3}, -1\right) \right\}$$

$$\text{ب) } h_x = \frac{f}{(x-1)}$$

$$h_x = \left\{ (2, 1), (0, 5), (3, -1), (-3, -1), (-2, 1) \right\}$$